Table S1. Radiocarbon dates of lithic assemblages containing atypical EUP materials with only charcoal samples (to compare the upper limit and distributions of the calibrated range, dates before 30,000 uncal BP with error range ≤ 1000 are selected).

| **N** | **E** | **Site** | **Region** | **Sediment / layer** | **14C age (BP)** | **Lab no.** | **Source** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 38.221  | 127.272  | Sangsa-ri | Cheorwon | lower, CL3, brown sandy | 31350 ± 220 | SNU11-1007 | GRICP 2013 |
|  |  |  |  | middle, CL2, dark brown | 37040 ± 300 | OWd120010 | GRICP 2013 |
| 38.081  | 127.209  | Neulgeori | Pocheon | middle, CL2, dark brown | 33060 ± 290 | SNU13-378 | GCHRC 2016 |
|  |  |  |  |  | 31590 ± 290 | SNU13-377 | GCHRC 2016 |
| 38.080  | 127.015  | Samgeo-ri | Yeoncheon | lower, CL1, brown sandy | 40370 ± 340 | CAL-? | BICH 2019 |
|  |  |  |  |  | 36300 ± 210 | CAL-? | BICH 2019 |
| 37.922  | 126.836  | Geumpa-ri | Paju | upper | 31400 ± 400 | SNU04-323 | ICPHU 2006 |
|  |  |  |  |  | 30800 ± 400 | SNU04-325 | ICPHU 2006 |
| 37.804  | 128.885  | Anhyeon-dong | Gangneung | lowest | 34100 ± 160 | PLD-17382 | YICP 2011 |
|  |  |  |  |  | 42140 ± 300 | PLD-17382 | YICP 2011 |
| 37.722  | 126.718  | Dongpae-ri | Paju | CH4 | 39500 ± 400 | SNU08-475 | GICP 2010 |
|  |  |  |  |  | 40300 ± 400 | SNU08-474 | GICP 2010 |
| 37.684  | 127.870  | Yeonbong | Hongcheon | CH2 | 41600 ± 600 | SNU05-253 | GRICP 2007 |
| 37.596  | 129.077  | Gigok | Donghae | CH3 | 37260 ± 820 | GX-30133 | GRICP 2005 |
|  |  |  |  | CH2 | 43170 ± 610 | GX-30132 | GRICP 2005 |
|  |  |  |  |  | 36070 ± 380 | GX-30136 | GRICP 2005 |
|  |  |  |  | CH1 | 35230 ± 380 | GX-30134 | GRICP 2005 |
| 37.594  | 129.079  | Mangsang-dong | Donghae | CH1 | 34000 ± 400 | SNU06-998 | GRICP 2009 |
| 37.580  | 127.210  | Deokso | Namyangju | lowest | 36800 ± 200 | SNU06-002 | USWM 2008 |
|  |  |  |  |  | 37300 ± 200 | SNU06-001 | USWM 2008 |
| 37.520  | 129.120  | Wolso | Donghae | CH2 | 43450 ± 790 | OWd090707 | YICP 2010 |
| 37.286  | 127.326  | Yujeong-ri | Gwangju | lowest | 41420 ± 540 | RPC-190140 | JIA 2022 |
| 37.020  | 128.370  | Gunanggul | Danyang | 3rd layer | 37610 ± 250 | IAAA-122978 | IKP 2013, 2015 |
|  |  |  |  |  | 40290 ± 320 | IAAA-122979 | IKP 2013, 2015 |
|  |  |  |  |  | 36250 ± 180 | IAAA-130214 | IKP 2013, 2015 |
|  |  |  |  |  | 37050 ± 180 | IAAA-130215 | IKP 2013, 2015 |
|  |  |  |  |  | 35050 ± 170 | IAAA-130216 | IKP 2013, 2015 |
| 35.850  | 127.100  | Palbok-dong | Jeonju | CH3 | 44857 ± 416 | ESCh170561 | JRICH 2019 |
|  |  |  |  |  | 42512 ± 403 | ESCh170562 | JRICH 2019 |
| 35.300  | 129.070  | Sasong-ri | Yangsan | CH1 | 32100 ± 220 | CAL-? | GCHRC 2018 |
|  |  |  |  |  | 34460 ± 280 | CAL-? | GCHRC 2018 |

Table S2. Measurements of blades and tanged points available from the excavation reports of the EUP sites.

| **Assemblage** | **Type** | **Length (mm)** | **Width (mm)** | **Thickness (mm)** | **Weight (g)** | **Lithic raw material** |
| --- | --- | --- | --- | --- | --- | --- |
| Hajin-ri 3 | Blade | 85.00  | 48.00  | 18.00  | 84.00  | (Siliceous) Shale |
|  |  | 72.00  | 19.00  | 17.00  | 16.00  | (Siliceous) Shale |
|  |  | 87.00  | 28.00  | 15.00  | 34.00  | (Siliceous) Shale |
|  |  | 45.00  | 17.00  | 5.00  | 3.00  | (Siliceous) Shale |
|  |  | 67.00  | 23.00  | 16.00  | 17.00  | (Siliceous) Shale |
|  |  | 52.00  | 20.00  | 4.00  | 6.00  | (Siliceous) Shale |
|  |  | 36.00  | 12.00  | 5.00  | 2.00  | (Siliceous) Shale |
|  |  | 67.00  | 14.00  | 7.00  | 6.00  | (Siliceous) Shale |
|  |  | 73.00  | 16.00  | 13.00  | 15.00  | (Siliceous) Shale |
|  |  | 70.00  | 19.00  | 8.00  | 11.00  | (Siliceous) Shale |
|  |  | 68.00  | 27.00  | 7.00  | 18.00  | (Siliceous) Shale |
|  |  | 78.50  | 22.80  | 18.00  | 22.00  | (Siliceous) Shale |
|  |  | 80.90  | 36.40  | 10.40  | 32.00  | (Siliceous) Shale |
|  |  | 93.30  | 48.20  | 14.80  | 65.00  | (Siliceous) Shale |
|  |  | 51.30  | 18.90  | 13.10  | 11.00  | (Siliceous) Shale |
|  |  | 96.30  | 40.10  | 14.50  | 41.00  | (Siliceous) Shale |
|  |  | 133.10  | 34.10  | 13.10  | 46.00  | (Siliceous) Shale |
|  |  | 84.30  | 22.20  | 8.30  | 21.00  | (Siliceous) Shale |
|  |  | 119.00  | 52.50  | 19.30  | 89.00  | (Siliceous) Shale |
|  |  | 34.80  | 7.00  | 4.10  | 1.00  | (Siliceous) Shale |
|  |  | 94.30  | 28.90  | 12.50  | 27.00  | (Siliceous) Shale |
|  |  | 120.00  | 38.10  | 17.50  | 76.00  | (Siliceous) Shale |
|  |  | 93.80  | 31.00  | 13.30  | 29.00  | (Siliceous) Shale |
|  |  | 43.20  | 11.20  | 7.00  | 5.00  | (Siliceous) Shale |
|  |  | 33.00  | 11.80  | 4.10  | 2.00  | (Siliceous) Shale |
|  |  | 41.80  | 11.70  | 6.80  | 3.00  | (Siliceous) Shale |
|  |  | 151.10  | 37.50  | 17.70  | 105.00  | (Siliceous) Shale |
| Hajin-ri 4 |  | 110.20  | 42.50  | 17.10  | 82.00  | (Siliceous) Shale |
|  |  | 37.90  | 6.50  | 4.20  | 1.00  | (Siliceous) Shale |
|  |  | 21.50  | 9.20  | 2.90  | 0.70  | (Siliceous) Shale |
|  |  | 123.10  | 39.00  | 20.60  | 93.00  | (Siliceous) Shale |
|  |  | 115.80  | 36.20  | 12.80  | 67.00  | (Siliceous) Shale |
|  |  | 149.30  | 51.40  | 25.00  | 198.00  | (Siliceous) Shale |
|  |  | 119.40  | 28.20  | 20.40  | 59.00  | (Siliceous) Shale |
|  |  | 92.30  | 15.40  | 9.00  | 16.00  | (Siliceous) Shale |
|  |  | 204.50  | 56.30  | 30.00  | 316.00  | (Siliceous) Shale |
|  |  | 112.70  | 19.70  | 8.60  | 26.00  | (Siliceous) Shale |
|  |  | 134.30  | 41.30  | 30.70  | 159.00  | (Siliceous) Shale |
|  |  | 147.50  | 36.10  | 23.60  | 121.00  | (Siliceous) Shale |
|  |  | 102.70  | 27.70  | 30.00  | 90.00  | (Siliceous) Shale |
|  |  | 63.20  | 22.80  | 8.40  | 11.40  | (Siliceous) Shale |
|  |  | 142.20  | 44.20  | 12.00  | 78.00  | (Siliceous) Shale |
|  |  | 102.10  | 24.40  | 12.80  | 45.00  | (Siliceous) Shale |
|  |  | 124.00  | 39.00  | 19.30  | 113.00  | (Siliceous) Shale |
|  |  | 88.70  | 27.70  | 6.20  | 27.00  | (Siliceous) Shale |
|  |  | 64.60  | 18.70  | 9.70  | 12.00  | (Siliceous) Shale |
|  |  | 69.60  | 33.90  | 13.30  | 36.00  | (Siliceous) Shale |
|  |  | 98.30  | 27.40  | 13.50  | 33.00  | (Siliceous) Shale |
|  |  | 72.30  | 37.70  | 6.00  | 14.00  | (Siliceous) Shale |
|  |  | 123.30  | 46.00  | 13.80  | 67.00  | (Siliceous) Shale |
|  |  | 97.70  | 32.40  | 9.50  | 33.00  | (Siliceous) Shale |
|  |  | 143.70  | 29.50  | 21.50  | 91.00  | (Siliceous) Shale |
|  |  | 172.00  | 33.80  | 18.50  | 132.00  | (Siliceous) Shale |
|  |  | 79.70  | 42.80  | 16.70  | 46.00  | (Siliceous) Shale |
|  |  | 136.40  | 22.70  | 12.10  | 35.00  | (Siliceous) Shale |
|  |  | 95.60  | 21.90  | 19.50  | 32.00  | (Siliceous) Shale |
|  |  | 110.00  | 25.40  | 9.50  | 33.00  | (Siliceous) Shale |
|  |  | 141.80  | 35.60  | 13.70  | 63.00  | (Siliceous) Shale |
|  |  | 71.60  | 16.50  | 11.90  | 15.00  | (Siliceous) Shale |
|  |  | 72.20  | 32.40  | 13.20  | 21.00  | (Siliceous) Shale |
|  |  | 82.10  | 35.60  | 18.40  | 45.00  | (Siliceous) Shale |
|  |  | 77.30  | 14.80  | 12.10  | 13.00  | (Siliceous) Shale |
|  |  | 122.40  | 38.30  | 16.70  | 70.00  | (Siliceous) Shale |
| Yongsujaeul |  | 126.00  | 30.00  | 22.00  | 77.00  | (Silicified) Tuff |
|  |  | 88.00  | 45.00  | 27.00  | 64.00  | (Silicified) Tuff |
|  |  | 86.00  | 38.00  | 18.00  | 47.00  | (Silicified) Tuff |
|  |  | 119.00  | 54.00  | 20.00  | 87.00  | (Silicified) Tuff |
|  |  | 96.00  | 50.00  | 19.00  | 90.00  | (Silicified) Tuff |
|  |  | 91.00  | 44.00  | 16.00  | 50.00  | (Silicified) Tuff |
|  |  | 60.00  | 41.00  | 23.00  | 31.00  | (Silicified) Tuff |
|  |  | 75.00  | 32.00  | 14.00  | 21.00  | (Silicified) Tuff |
|  |  | 47.00  | 20.00  | 11.00  | 6.00  | (Silicified) Tuff |
|  |  | 63.00  | 15.00  | 10.00  | 6.00  | (Silicified) Tuff |
|  |  | 58.00  | 13.00  | 11.00  | 5.00  | (Silicified) Tuff |
|  |  | 126.00  | 70.00  | 19.00  | 147.00  | (Silicified) Tuff |
|  |  | 89.00  | 45.00  | 11.00  | 48.00  | (Silicified) Tuff |
|  |  | 112.00  | 47.00  | 16.00  | 77.00  | (Silicified) Tuff |
|  |  | 116.00  | 45.00  | 15.00  | 84.00  | (Silicified) Tuff |
|  |  | 104.00  | 52.00  | 18.00  | 81.00  | (Silicified) Tuff |
|  |  | 86.00  | 35.00  | 14.00  | 22.00  | (Silicified) Tuff |
|  |  | 83.00  | 36.00  | 15.00  | 24.00  | (Silicified) Tuff |
|  |  | 72.00  | 35.00  | 13.00  | 16.00  | (Silicified) Tuff |
|  |  | 99.00  | 49.00  | 19.00  | 39.00  | (Silicified) Tuff |
|  |  | 75.00  | 39.00  | 14.00  | 36.00  | (Silicified) Tuff |
|  |  | 62.00  | 31.00  | 10.00  | 10.00  | (Silicified) Tuff |
|  |  | 52.00  | 30.00  | 9.00  | 8.00  | (Silicified) Tuff |
|  |  | 52.00  | 27.00  | 8.00  | 6.00  | (Silicified) Tuff |
|  |  | 71.00  | 32.00  | 13.00  | 25.00  | (Silicified) Tuff |
|  |  | 59.00  | 33.00  | 10.00  | 15.00  | (Silicified) Tuff |
|  |  | 60.00  | 34.00  | 11.00  | 21.00  | (Silicified) Tuff |
|  |  | 55.00  | 30.00  | 9.00  | 9.00  | (Silicified) Tuff |
|  |  | 69.00  | 37.00  | 18.00  | 36.00  | (Silicified) Tuff |
|  |  | 64.00  | 19.00  | 8.00  | 7.00  | (Silicified) Tuff |
|  |  | 39.00  | 36.00  | 7.00  | 7.00  | (Silicified) Tuff |
|  |  | 59.00  | 35.00  | 14.00  | 21.00  | (Silicified) Tuff |
|  |  | 24.00  | 18.00  | 5.00  | 2.00  | (Silicified) Tuff |
|  |  | 32.00  | 18.00  | 4.00  | 2.00  | (Silicified) Tuff |
|  |  | 30.00  | 19.00  | 7.00  | 3.00  | (Silicified) Tuff |
|  |  | 31.00  | 16.00  | 5.00  | 1.00  | (Silicified) Tuff |
|  |  | 24.00  | 16.00  | 5.00  | 0.90  | (Silicified) Tuff |
|  |  | 24.00  | 13.00  | 3.00  | 0.70  | (Silicified) Tuff |
| Songam-ri |  | 56.90  | 17.40  | 7.40  | 8.00  | (Siliceous) Shale |
|  |  | 62.30  | 32.00  | 7.70  | 16.00  | (Siliceous) Shale |
| Yongsujaeul | Tanged point | 85.00  | 25.00  | 10.00  | 18.00  | (Silicified) Tuff |
|  |  | 45.00  | 34.00  | 7.00  | 7.00  | (Silicified) Tuff |
|  |  | 32.00  | 17.00  | 6.00  | 2.00  | (Silicified) Tuff |
|  |  | 33.00  | 19.00  | 14.00  | 7.00  | (Silicified) Tuff |
| Songam-ri |  | 38.10  | 16.20  | 7.70  | 5.00  | (Siliceous) Shale |
|  |  | 54.20  | 26.10  | 8.30  | 8.00  | Rhyolite |
|  |  | 40.30  | 18.00  | 4.60  | 3.00  | (Siliceous) Shale |
| Hajin-ri 3 |  | 67.00  | 20.00  | 7.00  | 9.00  | (Siliceous) Shale |
|  |  | 50.00  | 20.00  | 8.00  | 8.00  | (Siliceous) Shale |
|  |  | 58.00  | 28.00  | 10.00  | 13.00  | (Siliceous) Shale |
|  |  | 68.70  | 23.60  | 9.00  | 15.00  | (Siliceous) Shale |
|  |  | 78.30  | 26.80  | 9.50  | 17.00  | (Siliceous) Shale |
|  |  | 70.10  | 26.30  | 7.70  | 15.00  | (Siliceous) Shale |
|  |  | 61.90  | 19.50  | 7.30  | 6.00  | (Siliceous) Shale |
|  |  | 63.40  | 21.20  | 5.30  | 7.00  | (Siliceous) Shale |
|  |  | 80.20  | 21.10  | 8.00  | 12.00  | (Silicified) Tuff |
|  |  | 49.50  | 19.40  | 5.70  | 4.00  | (Siliceous) Shale |
|  |  | 50.90  | 18.70  | 8.40  | 8.00  | (Siliceous) Shale |
| Hajin-ri 4 |  | 48.60  | 24.20  | 7.20  | 7.00  | (Siliceous) Shale |
|  |  | 63.30  | 22.00  | 7.10  | 11.00  | (Siliceous) Shale |
|  |  | 55.70  | 25.00  | 6.20  | 7.00  | (Siliceous) Shale |
|  |  | 36.70  | 21.10  | 5.20  | 4.00  | (Siliceous) Shale |
|  |  | 62.80  | 22.50  | 6.80  | 9.00  | (Siliceous) Shale |
|  |  | 44.80  | 17.50  | 4.50  | 4.00  | (Siliceous) Shale |
|  |  | 57.60  | 21.10  | 6.00  | 8.00  | (Siliceous) Shale |
|  |  | 69.90  | 20.70  | 6.10  | 11.00  | (Siliceous) Shale |
|  |  | 81.20  | 24.10  | 8.70  | 18.00  | (Siliceous) Shale |
|  |  | 48.50  | 20.50  | 4.90  | 4.00  | (Siliceous) Shale |
|  |  | 76.20  | 27.30  | 6.10  | 12.00  | (Siliceous) Shale |
|  |  | 51.50  | 20.90  | 6.60  | 7.00  | (Siliceous) Shale |
|  |  | 69.90  | 31.30  | 7.50  | 18.00  | (Siliceous) Shale |
|  |  | 68.30  | 27.60  | 9.30  | 14.00  | (Siliceous) Shale |
|  |  | 84.30  | 25.20  | 9.00  | 23.00  | (Siliceous) Shale |
|  |  | 51.10  | 19.80  | 6.10  | 5.00  | (Siliceous) Shale |
|  |  | 75.20  | 21.20  | 6.70  | 9.00  | (Siliceous) Shale |
|  |  | 73.20  | 24.20  | 9.00  | 15.00  | (Siliceous) Shale |
|  |  | 59.70  | 24.50  | 7.30  | 11.00  | (Siliceous) Shale |
|  |  | 65.90  | 24.90  | 7.50  | 12.00  | (Siliceous) Shale |
|  |  | 88.00  | 28.50  | 10.00  | 22.00  | (Siliceous) Shale |
|  |  | 79.70  | 23.90  | 10.60  | 17.00  | (Siliceous) Shale |
|  |  | 62.70  | 22.40  | 9.40  | 11.00  | (Siliceous) Shale |
|  |  | 74.80  | 27.90  | 5.70  | 15.00  | (Siliceous) Shale |
|  |  | 73.30  | 24.40  | 7.40  | 11.00  | (Siliceous) Shale |
|  |  | 88.00  | 27.80  | 7.80  | 15.00  | (Siliceous) Shale |
|  |  | 71.90  | 27.80  | 11.20  | 17.00  | (Siliceous) Shale |
|  |  | 78.00  | 23.30  | 6.10  | 12.00  | (Siliceous) Shale |
|  |  | 72.80  | 20.60  | 7.00  | 10.00  | (Siliceous) Shale |
|  |  | 56.10  | 20.80  | 5.30  | 5.00  | (Siliceous) Shale |
|  |  | 80.70  | 24.20  | 6.40  | 15.00  | (Siliceous) Shale |
|  |  | 69.00  | 14.10  | 8.90  | 8.00  | (Siliceous) Shale |
|  |  | 93.80  | 25.70  | 6.20  | 19.00  | (Siliceous) Shale |
|  |  | 62.60  | 17.50  | 7.00  | 8.00  | (Siliceous) Shale |
|  |  | 76.70  | 28.50  | 11.50  | 17.00  | (Siliceous) Shale |
|  |  | 74.50  | 29.50  | 8.50  | 19.00  | (Siliceous) Shale |
|  |  | 76.30  | 24.30  | 7.40  | 16.00  | (Siliceous) Shale |
|  |  | 55.10  | 24.90  | 6.90  | 8.00  | (Siliceous) Shale |
|  |  | 77.30  | 24.40  | 4.50  | 9.00  | (Siliceous) Shale |
|  |  | 51.10  | 17.80  | 6.60  | 6.00  | (Siliceous) Shale |
|  |  | 54.20  | 24.90  | 9.70  | 12.00  | (Siliceous) Shale |
|  |  | 73.70  | 29.10  | 8.40  | 14.00  | (Siliceous) Shale |
|  |  | 68.10  | 22.00  | 8.60  | 11.00  | (Siliceous) Shale |
|  |  | 56.00  | 20.50  | 6.70  | 9.00  | (Siliceous) Shale |
|  |  | 55.00  | 23.70  | 8.10  | 14.00  | (Siliceous) Shale |
|  |  | 60.40  | 22.20  | 5.20  | 8.00  | (Siliceous) Shale |
|  |  | 78.90  | 22.60  | 8.60  | 13.00  | (Siliceous) Shale |
|  |  | 74.10  | 26.70  | 9.50  | 15.00  | (Siliceous) Shale |
|  |  | 75.30  | 22.60  | 6.80  | 11.00  | (Siliceous) Shale |
|  |  | 73.30  | 23.00  | 6.20  | 8.00  | (Siliceous) Shale |
|  |  | 54.70  | 20.60  | 5.30  | 5.00  | (Siliceous) Shale |
|  |  | 69.90  | 23.50  | 8.50  | 12.00  | (Siliceous) Shale |
|  |  | 53.70  | 20.60  | 5.00  | 7.00  | (Siliceous) Shale |
|  |  | 80.40  | 27.20  | 8.20  | 16.00  | (Siliceous) Shale |
|  |  | 77.40  | 22.10  | 9.50  | 13.00  | (Siliceous) Shale |
|  |  | 53.40  | 20.40  | 8.10  | 6.00  | (Siliceous) Shale |
|  |  | 68.00  | 23.40  | 8.50  | 15.00  | (Siliceous) Shale |
|  |  | 57.30  | 19.60  | 7.50  | 8.00  | (Siliceous) Shale |
|  |  | 71.40  | 21.30  | 5.20  | 7.00  | (Siliceous) Shale |
|  |  | 65.40  | 26.00  | 6.50  | 13.00  | (Siliceous) Shale |
|  |  | 58.40  | 38.80  | 21.10  | 57.00  | (Siliceous) Shale |
|  |  | 70.20  | 22.50  | 5.60  | 11.00  | (Siliceous) Shale |
|  |  | 56.20  | 18.90  | 6.60  | 6.00  | (Siliceous) Shale |
|  |  | 75.10  | 32.20  | 8.70  | 21.00  | (Siliceous) Shale |

Table S3. Radiocarbon dates from four IUP-EUP assemblages discussed in the text (to compare the upper limit and distributions of the calibrated range, dates before 30,000 uncal BP are selected).

| **#** | **Site** | **Approximate location** | **14C age BP** | **Lab no.** | **Sample** | **References** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Kara-Bom (UP1) | 50.722892 N / 85.574655 E | 30,990 ± 460 | GX-17593 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 2 |  |  | 33,780 ± 570 | GX-17594 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 3 |  |  | 34,180 ± 640 | GX-17595 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 4 | Kara-Bom (UP2) |  | 43,300 ± 1600 | GX-17596 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 5 |  |  | 43,200 ± 1500 | GX-17597 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 6 | Kara-Bom (UP1) |  | 31,800 ± 400 | OxA-36908 | bone | Rybin et al. 2023 |
| 7 |  |  | 32,300 ± 450 | OxA-36868 | bone | Rybin et al. 2023 |
| 8 | Kara-Bom (UP2) |  | 43,700 ± 1800 | OxA-36869 | bone | Rybin et al. 2023 |
| 9 |  |  | 44,400 ± 2000 | OxA-36909 | bone | Rybin et al. 2023 |
| 10 |  |  | 41,200 ± 1300 | OxA-34923 | bone | Rybin et al. 2023 |
| 11 |  |  | 43,400 ± 1700 | OxA-34920 | bone | Rybin et al. 2023 |
| 12 |  |  | 45,000 ± 2100 | OxA-34921 | bone | Rybin et al. 2023 |
| 13 |  |  | 45,400 ± 2200 | OxA-34922 | bone | Rybin et al. 2023 |
| 14 |  |  | 46,400 ± 2500 | OxA-34924 | bone | Rybin et al. 2023 |
| 15 | Kamenka A | 51.747755 N / 108.291978 E  | 31,060 ± 530 | SOAN-3133 | charcoal | Vasil’ev et al. 2002 |
| 16 |  |  | 41,350 ± 450 | OxA-12117 | bone | Buvit et al. 2016 |
| 17 |  |  | 40,500 ± 3800 | AA-26743 | bone | Buvit et al. 2016 |
| 18 |  |  | 30,460 ± 430 | SOAN-3354 | bone | Buvit et al. 2016 |
| 19 |  |  | 39,290 ± 350 | OxA-12116 | bone | Zwyns and Lbova 2019 |
| 20 |  |  | 37,350 ± 310 | GrA-5435 | bone | Zwyns and Lbova 2019 |
| 21 | Kamenka B |  | 35,845 ± 695 | SOAN-2904 | bone | Buvit et al. 2014 |
| 22 | Kamenka C |  | 30,220 ± 270 | SOAN-3052 | bone | Buvit et al. 2014 |
| 23 | Tolbaga | 51.207779 N / 109.324670 E | 31,120 ± 380 | Beta-241406 | bone | Izuho et al. 2019 |
| 24 |  |  | 35,770 ± 340 | Beta-344453 | bone | Izuho et al. 2019 |
| 25 |  |  | 30,350 ± 200 | Beta-344455 | bone | Izuho et al. 2019 |
| 26 |  |  | 33,540 ± 500 | UCIAMS-143219 | bone | Izuho et al. 2019 |
| 27 |  |  | 33,470 ± 490 | UCIAMS-143221 | bone | Izuho et al. 2019 |
| 28 |  |  | 38,400 ± 1400 | UCIAMS-143234 | bone | Izuho et al. 2019 |
| 29 |  |  | 36,940 ± 750 | UCIAMS-143235 | bone | Izuho et al. 2019 |
| 30 |  |  | 33,580 ± 520 | UCIAMS-143236 | bone | Izuho et al. 2019 |
| 31 |  |  | 30,700 ± 350 | UCIAMS-143237 | bone | Izuho et al. 2019 |
| 32 |  |  | 31,510 ± 390 | UCIAMS-143238 | bone | Izuho et al. 2019 |
| 33 |  |  | 31,400 ± 380 | UCIAMS-143240 | bone | Izuho et al. 2019 |
| 34 |  |  | 33,530 ± 500 | UCIAMS-143241 | bone | Izuho et al. 2019 |
| 35 |  |  | 31,920 ± 410 | UCIAMS-143242 | bone | Izuho et al. 2019 |
| 36 |  |  | 38,210 ± 890 | UCIAMS-143243 | bone | Izuho et al. 2019 |
| 37 | Tolbor-16 (AH 4) | 49.226983 N / 102.923106E | 33,320 ± 180 | MAMS-14932 | bone | Zwyns et al. 2019 |
| 38 |  |  | 33,520 ± 170 | MAMS-20979 | bone | Zwyns et al. 2019 |
| 39 | Tolbor-16 (AH 6) |  | 41,030 ± 350 | MAMS-20981 | bone | Zwyns et al. 2019 |
| 40 |  |  | 39,570 ± 290 | MAMS-20982 | bone | Zwyns et al. 2019 |
| 41 |  |  | 40,480 ± 320 | MAMS-20985 | bone | Zwyns et al. 2019 |
| 42 |  |  | 40,820 ± 240 | MAMS-24088 | bone | Zwyns et al. 2019 |
| 43 |  |  | 40,910 ± 340 | MAMS-20983 | bone | Zwyns et al. 2019 |
| 44 |  |  | 41,720 ± 390 | MAMS-20984 | bone | Zwyns et al. 2019 |
| 45 | Tolbor-21 (AH 5) | 49.263068 N / 102.957732 E | 42,830 ± 390 | MAMS-31819 | bone | Rybin et al. 2020 |
| 46 | Tolbor-21 (AH 4) |  | 38,150 ± 240 | MAMS-31816 | bone | Rybin et al. 2020 |
| 47 |  |  | 37,950 ± 240 | MAMS-31817 | bone | Rybin et al. 2020 |
| 48 |  |  | 37,250 ± 220 | MAMS-31818 | bone | Rybin et al. 2020 |
| 49 |  |  | 38,100 ± 390 | MAMS-28272 | bone | Rybin et al. 2020 |
| 50 |  |  | 37,770 ± 460 | MAMS-41784 | bone | Rybin et al. 2020 |
| 51 | Shuidonggou (locality 1) | 38.298633 N / 106.501718 E | 36,200 ± 140 | UGAMS-9682 | charcoal | Li et al., 2013; Morgan et al., 2014 |
| 52 | Shuidonggou (locality 2) |  | 36,329 ± 215 | BA-07943 | wood | Li et al., 2013; Morgan et al., 2014 |
| 53 | Shiyu | 39.405459 N / 112.346784 E | 40,700 ± 1300 | OxA-30979 | bone | Yang et al. 2024 |
| 54 |  |  | 41,500 ± 1400 | OxA-30978 | bone | Yang et al. 2024 |
| 55 |  |  | 42,100 ± 1600 | OxA-43259 | bone | Yang et al. 2024 |
| 56 |  |  | 42,300 ± 1600 | OxA-43260 | bone | Yang et al. 2024 |
| 57 |  |  | 43,300 ± 1800 | OxA-43261 | tooth | Yang et al. 2024 |
| 58 |  |  | 43,700 ± 1900 | OxA-43262 | bone | Yang et al. 2024 |
| 59 |  |  | 43,300 ± 1800 | OxA-43263 | bone | Yang et al. 2024 |
| 60 |  |  | 43,400 ± 1800 | OxA-43264 | bone | Yang et al. 2024 |
| 61 |  |  | 40,600 ± 1300 | OxA-43265 | bone | Yang et al. 2024 |
| 62 |  |  | 41,500 ± 1400 | OxA-43266 | bone | Yang et al. 2024 |
| 63 |  |  | 41,300 ± 1300 | OxA-43267 | bone | Yang et al. 2024 |

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